

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously canceled)

Claim 2 (currently amended): The apparatus of claim 18 wherein the slopes of all said reflective surfaces are defined so that angles of incidence α of said radiant energy on said reflective surfaces have particular values more than 45° and less than 90° .

Claim 3 (previously amended): The apparatus of claim 18 wherein said reflective surfaces are designed and positioned to minimize screening and shadowing on other reflective surfaces

Claim 4 (previously amended): The apparatus of claim 18 further comprising one or more planar reflective surfaces for directing said radiant energy toward said energy receiving means.

Claim 5 (previously amended): The apparatus of claim 18 wherein at least one of said transversal profiles is a segment of conical section curve.

Claim 6 (original): The apparatus of claim 5 wherein said segment is parabolic.

Claim 7 (original): The apparatus of claim 5 wherein said segment is circular.

Claim 8 (previously amended): The apparatus of claim 18 wherein at least one of said transversal profiles is a segment of a curve represented by a polynomial function of at least second order.

Claim 9 (previously amended): The apparatus of claim 18 wherein at least one of said transversal profiles is a segment of a parametric curve or spline tailored to provide a uniform illumination of said energy receiving means.

Claim 10 (previously amended): The apparatus of claim 18 wherein at least one of said transversal profiles comprises a set of conjugated lines selected from the group consisting of straight, parabolic, circular, elliptical, and hyperbolic segments.

Claim 11 (previously amended): The apparatus of claim 18 wherein said energy receiving means is positioned according to a relation: $\beta < 90^\circ$ where β is an angle between the direction to source of said radiant energy and direction to a point at said reflective surfaces taken at a point of the energy receiving surface of said energy receiving means.

Claim 12 (previously amended): The apparatus of claim 18 wherein said energy receiving means comprises at least one photovoltaic cell having working area facing toward said reflective surfaces and the source of said radiant energy.

Claim 13 (original): The apparatus of claim 12 further comprising at least one heat sink which is in heat exchange relation with said photovoltaic cell.

Claim 14 (previously amended): The apparatus of claim 18 wherein said energy receiving means comprises at least one tubular absorber of a solar heat collector.

Claim 15 (previously amended): The apparatus of claim 18 wherein said energy receiving means is mechanically separated from said reflective surfaces.

Claim 16 (previously amended): The apparatus of claim 18 wherein one or more said reflective surfaces is disposed in any one of a translated, a reversed and/or a rotated orientation relative to the others having the same basic arrangement.

Claim 17 (previously amended): The apparatus of claim 18 further comprising at least one axle support means for positioning said at least one array of said reflective surfaces according to the movement of source of said radiant energy.

Claim 18 (currently amended): Apparatus for collecting and converting radiant energy comprising:

a plurality of spaced apart, incorporated in at least one array elongated reflective surfaces having generally concave transversal profiles, front longitudinal ends and opposing rear longitudinal ends being generally inclined toward one another;

at least a substantial part of said reflective surfaces being designed and positioned to reflect incident radiant energy that impinges upon said reflective surfaces from the side of said front longitudinal ends into a plurality of convergent beams and direct said plurality of said convergent beams by means of a single reflection to a plurality of converging directions through spaces between adjacent pairs of said rear longitudinal ends; and

an elongated energy receiving means disposed in ~~immediate~~ energy receiving relation to each of said reflective surfaces so that said convergent energy beams reflected from said reflective surfaces at least partially superimpose on said energy receiving means.